Weather Company Data | PWS Observations - Current Conditions - v2

Domain Portfolio: Observations | Domain: Current Conditions | API Name: PWS Observations - Current Conditions - v2

Geography: Global **Attribution Required:** NO **Attribution Requirements:** N/A

Overview

Personal Weather Stations (PWS) Current Conditions returns the current conditions observations for the current record.Current record is the last record reported within 60 minutes. If the station has not reported a current conditions in the past 60 minutes, the response will not return an expired observation record (older than 60 minutes); a 'Data Expired' message will be returned instead.

HTTP Headers and Data Lifetime - Caching and Expiration

For details on appropriate header values as well as caching and expiration definitions, please see **The Weather Company Data | API Common Usage Guide**.

Unit of Measure Requirement

The unit of measure for the response. The following values are supported:

- e = English units
- m = Metric units
- h = Hybrid units (UK)

***Note Aggregate Product Name not intended for use unless it is in conjuction with one or more additional products.**

URL Construction

Atomic API URL Examples:	**Aggregate Product Name**	v2pwsObsCur*
Request by PWS Station ID: Required Parameters: format, units, apiKey | Optional Parameter: numericPrecision		
https://api.weather.com/v2/pws/observations/current?stationId=KMAHANOV10&format=json&units=e&apiKey=yourApiKey		

Valid Parameter Definitions

Parameter Name	Valid Parameter Value	Description
numericPrecision	decimal	Optional parameter. Set to 'decimal' to ensure data is returned in decimal format when needed. Will return integers if this value is not used.

Data Elements & Definitions

Note: Field names are sorted alphabetically in the table below for presentation purposes. The table below does not represent the sort order of the API response.

Field Name	Description	Type	Range	Sample	Nulls Allowed
country	Country Code	string		US	Y
epoch	Time in UNIX seconds	epoch		1475157931	Y
humidity	The relative humidity of the air.	integer/decimal		71	Y
lat	Latitude of PWS	decimal	Any valid latitude value. -90 to 90	32.50828934	Y

lon	Longitude of PWS	decimal	Any valid longitude value. -180 to 180	-110.8763962	Y
neighborhood	Neighborhood associated with the PWS location	string		WOW Arizona!	Y
obsTimeLocal	Time observation is valid in local apparent time by timezone - tz	ISO	YYYYY-MM-dd HH:mm:ss	2016-09-29 14:05:31	Y
obsTimeUtc	GMT(UTC) time	ISO	ISO 8601 - yyyy-MM-dd'T'HH:mm:ssZZ	2016-09-29T14:05:31Z	Y
qcStatus	Quality control indicator: -1: No quality control check performed 0: This observation was marked as possibly incorrect by our quality control algorithm 1: This observation passed quality control checks	integer	-1 to 1	1	N
realtimeFrequency	Frequency of data report updates in minutes	integer/decimal		5	Y
softwareType	Software type of the PWS	string		WS-1001 V2.2.9	Y
solarRadiation	Solar Radiation	integer/decimal		92.0	Y
stationID	ID as registered by wunderground.com	string		KAZTUCSO539	N
uv	UV reading of the intensity of solar radiation	integer/decimal		1.2	Y
winddir	Wind Direction	integer/decimal		52	Y
imperial metric metric_si uk_hybrid	Object containing fields that use a defined unit of measure. The object label is dependent on the units parameter assigned in the request. "imperial", "metric", "metric_si", "uk_hybrid"	object		imperial: {.....}	N
dewpt	The temperature which air must be cooled at constant pressure to reach saturation. The Dew Point is also an indirect measure of the humidity of the air. The Dew Point will never exceed the Temperature. When the Dew Point and Temperature are equal, clouds or fog will typically form. The closer the values of Temperature and Dew Point, the higher the relative humidity.	integer/decimal	-80 to 100 (°F) or -62 to 37 (°C)	58	Y
elev	Elevation	integer/decimal		3094	Y
heatIndex	Heat Index - An apparent temperature. It represents what the air temperature “feels like” on exposed human skin due to the combined effect of warm temperatures and high humidity. When the temperature is 70°F or higher, the Feels Like value represents the computed Heat Index.	integer/decimal		67	Y
precipRate	Rate of precipitation - instantaneous precipitation rate. How much rain would fall if the precipitation intensity did not change for one hour	integer/decimal		0.0	Y
precipTotal	Accumulated precipitation for today from midnight to present.	integer/decimal		0.0	Y
pressure	Mean Sea Level Pressure, the equivalent pressure reading at sea level recorded at this station	integer/decimal		30.06	Y
temp	Temperature in defined unit of measure.	integer/decimal		67	Y
windChill	Wind Chill - An apparent temperature. It represents what the air temperature “feels like” on exposed human skin due to the combined effect of the cold temperatures and wind speed. When the temperature is 61°F or lower the Feels Like value represents the computed Wind Chill so display the Wind Chill value.	integer/decimal		-34	Y
windGust	Wind Gust - sudden and temporary variations of the average Wind Speed. The report always shows the maximum wind gust speed recorded during the observation period. It is a required display field if Wind Speed is shown.	integer/decimal		56	Y
windSpeed	Wind Speed - The wind is treated as a vector; hence, winds must have direction and magnitude (speed). The wind information reported in the hourly current conditions corresponds to a	integer/decimal		56	Y

	10-minute average called the sustained wind speed. Sudden or brief variations in the wind speed are known as “wind gusts” and are reported in a separate data field. Wind directions are always expressed as ""from whence the wind blows"" meaning that a North wind blows from North to South. If you face North in a North wind the wind is at your face. Face southward and the North wind is at your back.				

JSON Sample


```
{
	observations: [
		{
			stationID: "KNCCARY89",
			obsTimeUtc: "2019-02-04T14:53:14Z",
			obsTimeLocal: "2019-02-04 09:53:14",
			neighborhood: "Highcroft Village",
			softwareType: "GoWunder 1337.9041ac1",
			country: "US",
			solarRadiation: 436.0,
			lon: -78.8759613,
			realtimeFrequency: null,
			epoch: 1549291994,
			lat: 35.80221176,
			uv: 1.2,
			winddir: 329,
			humidity: 71,
			qcStatus: 1,
			imperial: {
				temp: 53,
				heatIndex: 53,
				dewpt: 44,
				windChill: 53,
				windSpeed: 2,
				windGust: null,
				pressure: 30.09,
				precipRate: 0.0,
				precipTotal: 0.0,
				elev: 413
			}
		}
	]
}
```